

Date: Thu, 2 Dec 93 03:32:10 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1413  
To: Info-Hams

Info-Hams Digest                      Thu, 2 Dec 93                      Volume 93 : Issue 1413

Today's Topics:

A new DSP for Ham Radio  
AOL and 9600 access  
CONELRAD-what was it?  
Dayton Hamvention 94 Information  
First Radiotelephone Broadcast  
Life is too short for 2 KW!!!!  
Modem Software to Alert Many Pagers?  
Repeater calling procedure (Was: Elm  
Some TH-78A power tips  
The Power of Photons  
TIME TO GET TICKET  
W5YI's coverage of "temporary callsigns"  
Yaesu FT-11/R mini-HT: a first look

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Wed, 24 Nov 1993 18:06:45 GMT  
From: amiserv!vpnet!tellab5!jwa@uunet.uu.net  
Subject: A new DSP for Ham Radio  
To: info-hams@ucsd.edu

The Hamblaster Update

Over the past several months I posted updates about a  
DSP "The Hamblaster" that Will Torgrim (N9PEA) and myself  
are developing.

We are focusing our efforts on a packet modem that allows the user to improve H.F. reception by interfacing the Ham-blaster (it mounts inside a PC) to a transceiver and a packet or all mode TNC. Modems/filters for RTTY, Packtor, Amtor are also under developement and are compatable with the same software.

I am happy to report several new innovations.

- 1) The packet modem is loaded from a disk file and allows the user to interface to his radio using an A to A (analog to analog) connection. The DSP outputs a regenerated FSK signal that can be tuned to match the TNC or RTTY modem. The DSP also has a digital connection (A to D) for inter facing directly to the TNC's digital logic. I use a cable that connects a PK232 via the external modem port.
- 2) Using MS DOS Windowing Software an on screen control panel with pushbuttons and slidebars allows the user to control the DSP modem. The user, for example, can control the filter frequency, carrier detect and AGC, to name a few. If an external amplifier/speaker is connected to the DSP's output, you can monitor and hear the signal at the filters. Using an oscilloscope (connected to the DSP output) you can also analyze the carrier detect, AGC and data. The test points are displayed (on the PC) as a block diagram. You select a test point by moving the mouse cursor to it and by pressing the left mouse button.
- 3 There are two slide bars that control the filters center frequency and provides a tuning aid. Both slide bars have digital readouts that indicate the frequency in Hz. You tune the filter by moving the mouse cursor over the filter tune slide bar button and when you press the left mouse button the slide bar button moves. There's also a push-button that activates an auto tune feature. When it's enabled, the filter tune slide bar tracks the frequency counter slidebar. The auto tune feature works so well, it can even lock to a packet signal. It's also great for tuning RTTY, Amtor and Packtor. Even if your tuned off frequency (let's say a center frequency of 1200 Hz) the DSP locks onto the received signal and feeds the TNC with a regenerated 2125/2295 Hz tone.
- 4 Using the oscope control panel, there's an on screen digital storage oscilloscope that allows you to capture 4 signals. You can select 4 out of 8 test points by cliking on the modem

block diagram. When you click on the "SNAP" button a green window shows all 4 signals and the RMS value. You can even resize the display's amplitude and time base. The snap shot is done without interrupting the received signal.

- 5 I am working on software for Windows that will impliment all of the features the DOS version provides. The Windows version will have better graphics with animated buttons.
- 6 The best feature is, when you have the modem setup correctly you can leave the software, run some other application like your TNC software and the DSP keeps on going and going and going!

Ongoing developments;

- 1 Post detection carrier detect.
- 2 HDL protocol decoding
- 3 Morse code detection/regeneration
- 4 Adaptive voice filter.
- 5 FFT analysis.
- 6 Sound recording.
- 7 DTMF & PL tone detection.

---

Jack Albert	Fellow Radio Hacker
Tele (708) 378-6201	
Tellabs Operations, Inc.	FAX (708) 378-4590
1000 Remington Blvd.	jwa@tellabs.com
Bolingbrook, IL 60440	

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    * *
  * * *
* * * * *
  * * *
    * *
      *
THE BOWTIE FILTER

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Date: Wed, 24 Nov 93 22:48:14 -0400  
From: psinnntp!wlnntp.psi.com!usenet@uunet.uu.net  
Subject: AOL and 9600 access  
To: info-hams@ucsd.edu

Sorry about the post that went to this newsgroup. My mailer messed up... it was supposed to be a closed loop message.

Again... sorry for stray post.

Terry M. Stader, KA8SCP, America Online (AOL) Ham Radio Club Host  
Macintosh Amateur Radio Software List Maintainer  
Internet: tstader@aol.com or p00489@psilink.com  
Packet: KA8SCP@WA1PHY.#EMA.MA.USA.NOAM

-----  
Date: Wed, 24 Nov 93 22:40:54 -0400  
From: psinntp!wlnntp.psi.com!usenet@uunet.uu.net  
Subject: CONELRAD-what was it?  
To: info-hams@ucsd.edu

WOW... I remember that.... it was a way to announce that there was an  
attack! The triangle symbol was the symbol used for Civil Defense.

... and I am not that old!!! ;)

>DATE: 22 Nov 93 05:34:34 GMT  
>FROM: George W. Attallah <ab510@Freenet.carleton.ca>  
>  
>I have an early 50s bc reciever with triangular symbols at 640 and 1240 khz.  
>I have been told that these were for CONELRAD. Are there any old timers  
>out there who can fill me in on this? TNX.  
>  
>--  
>GEORGE ATTALLAH-"THE LAST SURVIVOR OF THE GROUP OF ONE"

Terry M. Stader, KA8SCP, America Online (AOL) Ham Radio Club Host  
Macintosh Amateur Radio Software List Maintainer  
Internet: tstader@aol.com or p00489@psilink.com  
Packet: KA8SCP@WA1PHY.#EMA.MA.USA.NOAM

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Date: 30 Nov 1993 17:48:44 GMT  
From: meaddata!dem@uunet.uu.net  
Subject: Dayton Hamvention 94 Information  
To: info-hams@ucsd.edu

Dayton Hamvention 94 Information  
April 29, 30, and May 1, 1994  
Hara Arena  
Dayton, Ohio

[Disclaimer: I'm not in any way associated with the Dayton Amateur Radio Association or the Hamvention. I'm just a local ham who received a helpful flyer in the mail. -- KD2MT]

#### Information:

General: (513) 276-6930  
Flea Market: (513) 276-6932 (Reservations not accepted by phone)  
Write: Hamvention  
Box 964  
Dayton, OH 45401-0964

#### Lodging:

List of hotels available.  
Write: Lodging  
Dayton Hamvention  
Chamber Plaza  
5th & Main Streets  
Dayton, OH 45402-2400

[NOTE: If there's interest, perhaps I can assemble a list of hotels and post it to the Net. -- KD2MT]

#### Deadlines:

Flea Market Space: 2/1/94  
Award Nominations: 3/1/94  
Handicapped Parking Permits: 4/1/94  
Advance Registration: 4/8/94 (USA), 4/1/94 (Canada)

#### Flea Market:

Flea Market space tickets (valid all 3 days) sold in advance only.  
3 spaces per person maximum.  
Rental tables and chairs not available.  
Vendors must also order admission ticket.  
Notification of space assignment mailed by 3/15/94.

#### License Exams:

Novice through Extra exams scheduled for Saturday and Sunday.  
To register: Send FCC form 610 (August 85 or later).  
Indicate which elements at top of form.  
Send copy of current license, if applicable.  
Send check for prevailing rates, payable to ARRL/VEC.  
Send to: Exam Registration

708 Mapleside Drive  
Trotwood, OH 45426

Talk In:

Primary: 146.940 -  
Alternate: 146.910 -  
223.940 -  
442.100 +  
Broadcast: 530 AM

Handicapped Parking:

Permits available.  
Send S.A.S.E. and copy of State Handicap Parking Permit or  
doctor's statement.  
Send to: Handicapped Parking  
Box 964  
Dayton, OH 45401-0964

Unofficial Activities:

Have your group's activities listed in the next mailer  
(1/3/94 deadline) or Hamvention Program (3/1/94 deadline).  
Write: Unofficial Activities  
Suite 108  
4500 Wadsworth Road  
Dayton, OH 45414-4700

Alternate Activities:

Schedules and reservation forms available.  
Write: Karen Lee, N8HRW  
9610 Wolf Creek Pike  
Trotwood, OH 45426-4148

Advance Registration:

Checks in \$US, payable to Dayton Hamvention.  
Send name, address, call, and day and evening phone numbers.  
Enclose separate checks for admission and Flea Market.

Be sure to indicate either:

- 1) Send admission tickets ONLY if flea market space assigned
- 2) Send admission tickets REGARDLESS of space assignment

Admission: \$11.00 per person (\$14.00 at door, good all 3 days)  
Banquet: \$22.00 per person (\$24.00 at door, if available)

Alternate

Activities

Luncheon: \$8.50 (Saturday), \$8.00 (Sunday), per person

Flea Market: \$30.00 (1 space)

\$60.00 (2 adjacent spaces)

\$150.00 (3 adjacent spaces)

Electricity: \$40.00 per space

Covered tent: \$215.00 each

Send to: Dayton Hamvention

Box 1446

Dayton, OH 45401-1446

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David Myers	"You guys listen to managers	(513) 865-1343
Mead Data Central	much too often."	Fabrication Systems
P.O. Box 933	My manager	dem@meaddata.com
Dayton, Ohio 45401	28 2/5/93 7	ab259@dayton.wright.edu

Date: 2 Dec 93 03:07:00 GMT

From: news-mail-gateway@ucsd.edu

Subject: First Radiotelephone Broadcast

To: info-hams@ucsd.edu

Well speaking of first contacts...the following was attached to the door here tonight along with some pizza junk ads and other fluff from the building management....

#### The First Christmas Radio Broadcast

Christmas Eve in 1906, sitting at his radio in the mid-Atlantic, the ship's wireless operator could hardly believe his ears. Instead of Morse Code, he heard the strains of a violin, followed by a crackly voice that seemed to come from nowhere: "If anybody hears me, please write to Mr. Fessenden at Brant Rock, Mass."

The wireless operator had tuned into the world's first broadcast of a program of words and music. Thus was the beginning of radio telephony which could broadcast words and music by using continuous waves of sound.

His radio audience consisted of professional radio operators on board ships or at shore stations monitoring navigation or military intelligence.

Fessenden's Christmas Eve concert was broadcast from a 420 ft. mast at Brant Rock, Mass. and has a range of 200 miles. In it he played the famous Largo from Handel's opera Serse on a phonograph, making him radio's

first disk jockey, and a woman sang some festive carols.

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so there you are. Truth or urban legend?

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Date: 1 Dec 93 12:37:15 GMT  
From: panix!not-for-mail@uunet.uu.net  
Subject: Life is too short for 2 KW!!!!  
To: info-hams@ucsd.edu

In <2di6g3\$ja@wrdis02.robins.af.mil> lakeith@robins.af.mil (CONTRACTOR Larry Keith;653 CCSG/SCT) writes:

>Keskinen Petri (oh3mep@lehtori.cc.tut.fi) wrote:

>Stuff deleted...

>: Pete

>:                   \* Life is too short for QRP! \*  
>No! Life is too short for 2 KW amps that splatter halfway up the  
>band!

Why is everybody picking on my call sign? ;)

--

Carl Oppedahl AA2KW  
Oppedahl & Larson (patent lawyers)  
Yorktown Heights, NY  
voice 212-777-1330

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Date: Wed, 24 Nov 93 22:38:50 -0400  
From: psinntp!wlnntp.psi.com!usenet@uunet.uu.net  
Subject: Modem Software to Alert Many Pagers?  
To: info-hams@ucsd.edu

There is a program called Snap Page that is distributed by Metromedia Paging here in the New England area. It has a way to group various pagers together under a single group. You could send a message to the whole group... can be anything you want.



We use Snap Page extensively here for our notification process for our nuclear power station's plan. Many of our users are hams... but most are Emergency Management Agency personnel.

So... I guess I would ask your paging company about the software!

BTW... Snap Page is a application based on the 80x86 processors. I have not found any "acceptable" software for my Mac at this time... but I recently saw an ad somewhere for a version with a retail of about \$150! Seemed pretty steep to me!

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>DATE: 22 Nov 1993 03:05:00 GMT
>FROM: Miles Abernathy <miles@mbs.telesys.utexas.edu>
>
>Our local Amateur Radio Emergency Service (ARES) group needs some software
>that could notify all our pager-carrying members when an emergency happens.
>
>Many of our members carry pagers for their jobs, and most of these are
>digital pagers. We need an application that would go down a list of pager
>phone numbers, dialing each, waiting until the phone is answered, then
>sending the TouchTones (r) for "14694". This number would be recognized by
>our members as meaning 146.94 MHz, the local ARES repeater frequency.
>
>Has anyone seen an app (for PC or Mac) that can do this? Thank you.
>
>= = = = =
> _ Miles Abernathy, N5K0B =
> | |__ miles@mbs.telesys.utexas.edu =
>_| | POB 7580, Austin TX 78713 =
>\ * / University of Texas @ Austin =
> \ / tel. (512) 471-6521 U.S.A. =
>= = = =
```

Terry M. Stader, KA8SCP, America Online (AOL) Ham Radio Club Host  
Macintosh Amateur Radio Software List Maintainer  
Internet: tstader@aol.com or p00489@psilink.com  
Packet: KA8SCP@WA1PHY.#EMA.MA.USA.NOAM

-----  
Date: 30 Nov 1993 14:31:18 -0500  
From: ucsnews!newshub.sdsu.edu!usc!howland.reston.ans.net!cs.utexas.edu!  
sdd.hp.com!hpscit.sc.hp.com!hpuerca.atl.hp.com!hpuerca!edh@network.ucsd.edu  
Subject: Repeater calling procedure (Was: Elm  
To: info-hams@ucsd.edu

My \$.02 worth:  
I've often heard people getting ribbed for calling CQ on a

repeater. It is, after all, a (shutter) imported from hf'ism and (like QTH for "where are you now") \_can\_ rub people the wrong way. Like Jay said, in Texas we always just assumed that a "monitoring" meant the caller was open for conversation. Around the Atlanta area I haven't heard CQ yet, but then again I haven't had much luck scareing up a contact when I "monitor".

But still, "monitoring" pretty simply says "Hi, I'm currently listening on this freq and would be willing to talk to some other amateur if they'd like to discuss pretty much any subject." Whew! Now THAT would be silly!

MY biggest gripe is the guy yelling "testing. TESTING." and then does not responding when I offer to help with a signal report. Maybe their speakers are busted but their mic's are good?

Cheers & 73 Ed Humphries N5RCK  
Hewlett Packard NARC Atlanta GA  
edh@hpuerca.atl.hp.com

-----  
Date: Thu, 2 Dec 1993 02:12:39 GMT  
From: munnari.oz.au!metro!dmssyd.syd.dms.CSIRO.AU!gregh@network.ucsd.edu  
Subject: Some TH-78A power tips  
To: info-hams@ucsd.edu

In article <wd6cmuCH2DLy.FrM@netcom.com>,  
Eric Williams <wd6cmu@netcom.com> wrote:

>  
> o The rig draws close to 2ma even with the power turned off, so don't

My TH78A draws only 0.25mA from its battery with the power off. If you are using an external 12 volt supply there will be a 2mA drain due to the battery charging circuitry with the battery pack removed.

Greg Hammond VK2YKI

-----  
Date: Tue, 30 Nov 1993 17:53:40 GMT  
From: netcomsv!netcom.com!netcomsv!cds8604!NewsWatcher!user@decwrl.dec.com  
Subject: The Power of Photons  
To: info-hams@ucsd.edu

> This is incredibly wrong.

>

> (a) When you increase power you simply emit more photons of the

> same energy, and they follow the same paths as the smaller  
> number of photons. The only way you change the energy of  
> a photon is to change the frequency of the corresponding wave,  
> and indeed waves of different frequency follow different paths  
> in the ionosphere, but that's not what we are talking about.  
>  
> (b) What's really happening is that the powerful transmitters send  
> the photons faster and harder, so they go further. The Heaviside  
> Layer has nothing to do with this, it is a variety of chicken.  
>  
> (c) One of the above paragraphs should not be taken seriously.  
>  
>  
>  
> Derek "sheesh" Wills (AA5BT, G3NMX)  
> Department of Astronomy, University of Texas,  
> Austin TX 78712. (512-471-1392)  
> oo7@astro.as.utexas.edu

Derek.

Once again you attempt to utilize fundamental physical principles to  
advance your treachery.

We who enjoy reading frivolity between the covers of QST simply KNOW our  
linear amplifiers boost the kinetic energy of the radio waves we emit. Our  
roof-mounted antenna recoil with such force the emission of a single dit  
cracks the joists in the ceiling.

We're talking raw power. Manly power.

Keep Max Planck and his quantum-bleeding-mechanics in the classroom where  
they belong. Real men run three-phase 440 into their shack. Real men have  
blisters on their balding scalps from high-power RF proximity effects.  
Don't tell US our photons aren't stronger than those whining 3KW QRPers.  
We have the radiation burns to prove it.

--

Joe Mastroianni A.R.S. AA6YD	"Up the airy mountain,
jdm@cadence.com	Down the rushy glen,
74107,310:cserve	We daren't go a-hunting,
JOE-M:Genie	For fear of little men."
	- Allingham

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The opinions expressed in this article do not reflect those of my employer

-----  
Date: Wed, 24 Nov 93 16:53:40  
From: netcomsv!netcomsv!lavc!lawrence.goodwin@decwrl.dec.com  
Subject: TIME TO GET TICKET  
To: info-hams@ucsd.edu

N> From: pmarsh@metro.mccneb.EDU  
N> Newsgroups: rec.radio.amateur.misc  
N> Subject: Time to get ticket  
N> Date: 24 Nov 93 03:21:12 GMT  
N> Organization: ucsd usenet gateway

N> Tested 30 Au#! rnews 1046  
Newsgroups: rec.radio.amateur.misc  
Path: lavc!lawrence.goodwin  
From: lawrence.goodwin@support.com  
Subject: TIME TO GET TICKET  
Message-Id: <9311241653.A6597wk@support.com>  
Organization: Los Angeles Valley College BBS (818) 985-7150  
X-Mailer: TBBS/PIMP v2.52  
Distribution: world  
Date: Wed, 24 Nov 93 16:53:40

N> From: pmarsh@metro.mccneb.EDU  
N> Newsgroups: rec.radio.amateur.misc  
N> Subject: Time to get ticket  
N> Date: 24 Nov 93 03:21:12 GMT  
N> Organization: ucsd usenet gateway

N> Tested 30 Aug 93 (930830, 8/30/93, 30.8.93 -- w

-----  
Date: Tue, 30 Nov 1993 17:41:51 GMT  
From: brunix!maxcy2.maxcy.brown.edu!md@uunet.uu.net  
Subject: W5YI's coverage of "temporary callsigns"  
To: info-hams@ucsd.edu

dls@genrad.com (Diana L. Carlson) writes:

> The thing that bothered me was that EVERY ONE OF THE LETTERS  
> described why this proposal would NOT be good for ham radio. Not  
> a single one described any reason why this proposal would be good  
> for ham radio.

You're being too sensitive.

Its Fred Maia's publication. He can put whatever he likes in it.  
If you don't like his blatherings, don't subscribe to his newsletter.  
Its that simple.

I got sick and tired of Wayne Green's garbage, and voted with my  
pocket. No more 73 subscription.

MD

--  
-- Michael P. Deignan  
-- Population Studies & Training Center  
-- Brown University, Box 1916, Providence, RI 02912  
-- (401) 863-7284

-----  
Date: Tue, 30 Nov 93 11:41:25 EST  
From: munnari.oz.au!bruce.cs.monash.edu.au!harbinger.cc.monash.edu.au!msuinfo!  
agate!linus!linus.mitre.org!mwvm.mitre.org!M14494@network.ucsd.edu  
Subject: Yaesu FT-11/R mini-HT: a first look  
To: info-hams@ucsd.edu

I just got one of the first FT-11/R mini-HTs from Yaesu, and  
I thought folks might be interested in some first impressions:  
Wonderful! Terriffic! Fantastic! Hock your banjo and buy one!  
The FT-11 is tiny, about 4x2x1 inch. It's much less of a handfull  
than the Icom 2sat, and slips nicely into your shirt pocket.  
Features galore, including alpha-numeric readout for named  
memories, DTMF code squelch, paging, digital message paging (!)  
plus tons of other stuff. The standard battery pack fits  
entirely within the radio, and provides 1.5 watts on high  
power. Other packs (larger) get you up to 5 watts if you want.  
The keyboard is plenty big enough even for us fat-fingered  
hams, and the keys seem very sturdy, with a nice positive  
click. The display and keypad light up on demand. All in all  
a wonderful little package; so far, I haven't found anything  
I don't like. The only funny thing I've noticed is that the  
touch tones seem to be delayed by about a quarter of a second  
from when you hit the key. Don't know if this is a fault, a  
feature, or just something I'm doing wrong. As you can tell,  
I like it a lot. I've always been a sucker for little radios,  
and this one really hit me where I live. The nice thing about  
it is that I don't have to sacrifice much in the way of performance  
or features to get the small size. I've compared it side by  
side to the new Kenwood, and it's no contest. The Yaesu wins  
hands down in size (quite a bit smaller than the K'wood),

Standard disclaimer: no connection with Yaesu, just a satisfied user.

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Bill Coleman, AA4LR           ! CIS: 76067,2327   AppleLink: D1958
Principal Software Engineer   ! Packet Radio: AA4LR @ W4Q0
Hayes Microcomputer Products, Inc. ! UUCP: uunet!hayes!bcoleman

```

POB 105203 Atlanta, GA 30348 USA ! Internet: bcoleman%hayes@uunet.uu.net  
Disclaimer: "My employer doesn't pay me to have opinions."  
Quote: "The same light shines on vineyards that makes deserts." -Steve Hackett.

-----  
Date: Tue, 30 Nov 1993 20:18:42 +0000  
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!pipex!uknet!demon!  
llondel.demon.co.uk!dave@network.ucsd.edu  
To: info-hams@ucsd.edu

References <1993Nov26.200816.19512@combdyn.com>,  
<754583670.19snx@mu.apana.org.au>, <Nov29.194927.39093@yuma.ACNS.ColoState.EDU>  
Subject : Re: Calculating SWR

In article <Nov29.194927.39093@yuma.ACNS.ColoState.EDU>  
galen@picea.CFNR.ColoState.EDU (Galen Watts) writes:

>  
>Yes, he did. SWR formulae are not on amateur tests in America.  
>

Sounds almost as bad as the UK test..... :-(

Dave

--

\*\*\*\*\*  
\* G4WRW @ GB7WRW.#41.GBR.EU AX25 \* Start at the beginning. Go on \*  
\* dave@llondel.demon.co.uk Internet \* until the end. Then stop. \*  
\* g4wrw@g4wrw.ampr.org Amprnet \* (the king to the white rabbit) \*  
\*\*\*\*\*

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End of Info-Hams Digest V93 #1413

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